# **WEST Search History**

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DATE: Wednesday, August 10, 2005

Hide?	<u>Set</u> <u>Name</u>	Query	<u>Hit</u> Count
	DB=F	PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
	L11	L10 and RNA adj3 dependent DNA polymerase	7
	L10	18 or L9	13
	L9	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) and (60,000 units or 65,000 units or 70,000 units or 75,000 units or 80,000 units)	9
	L8	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) and (30,000 units or 150,000 units or 35,000 units or 50,000 units or 40,000 units or 45,000 units or 55,000 units)	11
	DB=U	SPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
	L7	L6 and RNA adj3 dependent DNA polymerase	10
	L6	14 or L5	29
	L5	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) and (60,000 units or 65,000 units or 70,000 units or 75,000 units or 80,000 units)	13
	L4	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) and (30,000 units or 150,000 units or 35,000 units or 50,000 units or 40,000 units or 45,000 units or 55,000 units)	18
	L3	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) same subunit and (eukaryot\$5 or yeast or animal or insect)	17
	L2	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) same subunit same eukaryot\$5	. 0
	L1	(avian myeloblastosis vitus reverse transcriptase or AMV rt or amv reverse transcriptase) subunit same eukaryot\$5	. 0

END OF SEARCH HISTORY

## **Hit List**



Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 6835561 B1

Using default format because multiple data bases are involved.

L7: Entry 1 of 10

File: USPT

Dec 28, 2004

US-PAT-NO: 6835561

DOCUMENT-IDENTIFIER: US 6835561 B1

TITLE: Composition of reverse transcriptases and mutants thereof

DATE-ISSUED: December 28, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gerard; Gary F.

Frederick MD

Smith; Michael D.

Rockville MD

Chatterjee; Deb K.

North Potomac MD

US-CL-CURRENT: 435/194; 435/193

Full Title Citation	Front Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawu De

☐ 2. Document ID: US 6518019 B2

L7: Entry 2 of 10

File: USPT

Feb 11, 2003

US-PAT-NO: 6518019

DOCUMENT-IDENTIFIER: US 6518019 B2

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gerard; Gary F.

Frederick

\_\_\_\_\_

Smith; Michael D.

Rockville

MD MD

Chatterjee; Deb K.

North Potomac

MD

US-CL-CURRENT: <u>435/6</u>; <u>435/91.1</u>, <u>435/91.2</u>

ABSTRACT:

Record List Display Page 2 of 8

The present invention is generally related to compositions and methods for the reverse transcription of nucleic acid molecules, especially messenger RNA molecules. Specifically, the invention relates to compositions comprising mixtures of polypeptides having reverse transcriptase (RT) activity, and to methods of producing, amplifying or sequencing nucleic acid molecules (particularly cDNA molecules) using these compositions or polypeptides, particularly at temperatures about about 55.degree. C. The invention also relates to nucleic acid molecules produced by these methods, to vectors and host cells comprising these nucleic acid molecules, and to the use of such nucleic acid molecules to produce desired polypeptides. The invention also relates to methods for producing Rous Sarcoma Virus (RSV) and Avian Myeloblastosis Virus (AMV) RTs or other Avian Sarcoma-Leukosis Virus (ASLV) RTs (.alpha. and/or .beta. subunits thereof), to isolated nucleic acid molecules encoding such RSV RT, AMV RT or other ASLV RT subunits, to vectors and host cells comprising these isolated nucleic acid molecules and to RSV RT, AMV RT and other ASLV RT subunits produced by these methods. The invention further relates to nucleic acid molecules encoding recombinant heterodimeric RT holoenzymes, particularly heterodimeric RSV RTs, AMV RTs or other ASLV RTs (which may be .alpha..beta. RTs, .beta..beta. RTs, or .alpha. RTs), vectors (particularly baculovirus vectors) and host cells (particularly insect and yeast cells) comprising these nucleic acid molecules, methods for producing these heterodimeric RTs and heterodimeric RTs produced by these methods. The invention also relates to kits comprising the compositions, polypeptides, or RSV RTs, AMV RTs or other ASLV RTs of the invention.

116 Claims, 60 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De

☐ 3. Document ID: US 6291438 B1

L7: Entry 3 of 10

File: USPT

Sep 18, 2001

US-PAT-NO: 6291438

DOCUMENT-IDENTIFIER: US 6291438 B1

TITLE: Antiviral anticancer poly-substituted phenyl derivatized oligoribonucleotides and methods for their use

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Wang; Jui H. Amherst NY 14226

US-CL-CURRENT:  $\underline{514/44}$ ;  $\underline{435/325}$ ,  $\underline{435/375}$ ,  $\underline{435/6}$ ,  $\underline{435/91.1}$ ,  $\underline{536/23.1}$ ,  $\underline{536/24.31}$ ,  $\underline{536/24.33}$ ,  $\underline{536/24.35}$ ,  $\underline{536/25.3}$ 

ABSTRACT:

In accordance with the present invention, antisense oligonucleotides are provided with enhanced membrane permeability and stability. This is accomplished in

Record List Display Page 3 of 8

accordance with the invention through conjugating oligoribonucleotides with a hydrophobic carrier agent at the 2'-O position of the oligonucleotides. The hydrophobic carrier agent comprises a compound of the following general structure: ##STR1##

wherein R.sup.1, R.sup.2, R.sup.3, R.sup.4, and R.sup.5 are independently H, NO.sub.2, halide, linear or branched alkyl, linear or branched acyl, linear or branched alkylene, linear or branched O-alkyl, linear or branched amido, linear or branched S-alkyl, mono or disubstituted amine, linear or branched thioamido, phosphothionate, or phosphothioate. In a preferred embodiment, R.sup.1 and R.sup.3 are NO.sub.2. In such embodiment, it will be appreciated that when R.sup.2, R.sup.4, and R.sup.5 are H, the compound is DNP and when R.sup.4 is F, the compound is FDNP. In another preferred embodiment, the antisense oligoribonucleotide comprises a sequence complementary to a cellular or viral gene, and application of the derivatized antisense oligoribonucleotide inhibits the expression of said gene.

48 Claims, 53 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 21

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw (	- 2											
	-	Full	Title	Citation	Front	Review	Classification	Date	Reference Sequences	Attachments Claims	KWIC	Draw, De

☐ 4. Document ID: US 5693517 A

L7: Entry 4 of 10

File: USPT

Dec 2, 1997

US-PAT-NO: 5693517

DOCUMENT-IDENTIFIER: US 5693517 A

TITLE: Reagents and methods for coupled high temperature reverse transcription and polymerase chain reactions

DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gelfand; David H. Oakland CA
Myers; Thomas W. Alameda CA
Sigua; Christopher L. Antioch CA

US-CL-CURRENT: 435/193; 436/8, 436/86, 536/24.3, 536/24.33

#### ABSTRACT:

Methods are provided for the replication and amplification of RNA sequences by thermoactive DNA polymerases. In a preferred embodiment, high temperature reverse transcription is coupled to nucleic acid amplification in a one tube, one enzyme procedure using a thermostable DNA polymerase. Methods for eliminating carry over contamination of amplifications due to prior reverse transcription reactions are also provided. Reagents particularly suited for the methods of the present invention are provided.

6 Claims, 7 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 5. Document ID: US 5641864 A

L7: Entry 5 of 10

File: USPT

Jun 24, 1997

US-PAT-NO: 5641864

DOCUMENT-IDENTIFIER: US 5641864 A

\*\* See image for Certificate of Correction \*\*

TITLE: Kits for high temperature reverse transcription of RNA

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Gelfand; David H.

Oakland

CA

US-CL-CURRENT: 530/350; 435/6, 536/24.33

#### ABSTRACT:

Methods are provided for the replication and amplification of RNA sequences by thermoactive DNA polymerases. In a preferred embodiment, high temperature reverse transcription is coupled to nucleic acid amplification in a one tube, one enzyme procedure using a thermostable DNA polymerase. Methods for eliminating carry over contamination of amplifications due to prior reverse transcription reactions are also provided.

18 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Seguences | Attachments | Claims | KMC | Draw. De

☐ 6. Document ID: US 5618703 A

L7: Entry 6 of 10

File: USPT

Apr 8, 1997

US-PAT-NO: 5618703

DOCUMENT-IDENTIFIER: US 5618703 A

TITLE: Unconventional nucleotide substitution in temperature selective RT-PCR

DATE-ISSUED: April 8, 1997

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Record List Display Page 5 of 8

Gelfand; David H.

Oakland

CA

Myers; Thomas W.

Emeryville

CA

US-CL-CURRENT:  $\frac{435}{91.2}$ ;  $\frac{435}{6}$ ,  $\frac{435}{91.51}$ 

#### ABSTRACT:

Methods are provided for distinguishing between RNA and DNA templates in an amplification reaction. In a preferred embodiment of the invention, the amplification reaction is a PCR and the reaction is catalyzed by a thermostable DNA polymerase or both reverse transcription and amplification of a target RNA. The invention particularly relates to selective amplification of RNA in the presence of homologous DNA, for example, HIV nucleic acids.

7 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full	Title	Citation From	nt Review	Classification	Date	Reference	Sallie of A Chemical	Claims	KWIC	Drawt De
	7	Document II	D. 110 66	C1050 A						

L7: Entry 7 of 10

File: USPT

Oct 1, 1996

US-PAT-NO: 5561058

DOCUMENT-IDENTIFIER: US 5561058 A

TITLE: Methods for coupled high temperatures reverse transcription and polymerase

chain reactions

DATE-ISSUED: October 1, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gelfand; David H. Oakland CA Myers; Thomas W. Alameda CA Sigua; Christopher L. Antioch CA

US-CL-CURRENT: 435/91.2; 435/6, 435/91.1, 435/91.21, 435/91.51

#### ABSTRACT:

Methods are provided for the replication and amplification of RNA sequences by thermoactive DNA polymerases. In a preferred embodiment, high temperature reverse transcription is coupled to nucleic acid amplification in a one tube, one enzyme procedure using a thermostable DNA polymerase. Methods for eliminating carry over contamination of amplifications due to prior reverse transcription reactions are also provided. Reagents particularly suited for the methods of the present invention are provided.

22 Claims, 7 Drawing figures Exemplary Claim Number: 1

Record List Display Page 6 of 8

Number of Drawing Sheets: 6

Full Title Citation Front Review Classification Date Reference Equipmons Attachments Claims KMC Draw De

☐ 8. Document ID: US 5407800 A

L7: Entry 8 of 10

File: USPT

STATE

ZIP CODE

Apr 18, 1995

COUNTRY

US-PAT-NO: 5407800

DOCUMENT-IDENTIFIER: US 5407800 A

TITLE: Reverse transcription with Thermus thermophilus polymerase

DATE-ISSUED: April 18, 1995

INVENTOR-INFORMATION:

NAME CITY

Oakland CA

Gelfand; David H. Myers; Thomas W.

Alameda CA

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 435/91.51, 536/18.7, 536/24.31, 536/24.33

ABSTRACT:

Methods are provided for the replication and amplification of RNA sequences by thermoactive DNA polymerases. Reverse transcription of RNA is catalyzed by, for example, 94 kDa Taq, 62 kDa Taq, and recombinant Tth DNA polymerase. Reverse transcription is coupled to PCR amplification in a one enzyme procedure using a thermostable polymerase.

17 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

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	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawt De

☐ 9. Document ID: US 5322770 A

L7: Entry 9 of 10

File: USPT

Jun 21, 1994

US-PAT-NO: 5322770

DOCUMENT-IDENTIFIER: US 5322770 A

\*\* See image for Certificate of Correction \*\*

TITLE: Reverse transcription with thermostable DNA polymerases - high temperature reverse transcription

DATE-ISSUED: June 21, 1994

INVENTOR-INFORMATION:

Record List Display Page 7 of 8

NAME

CITY

STATE ZIP CODE

COUNTRY

Gelfand; David H.

Oakland

CA

US-CL-CURRENT: 435/6; 435/7.91, 435/91.2, 435/91.21, 435/91.51, 536/25.6

#### ABSTRACT:

Methods are provided for the replication and amplification of RNA sequences by thermostable DNA polymerases. Reverse transcription of RNA is catalyzed by, for example, 92 kDa Taq, 64 kDa Taq, and Tth DNA polymerase. Reverse transcription is coupled to PCR amplification in a one enzyme procedure using a thermostable polymerase.

18 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
		•						* -				

☐ 10. Document ID: US 5310652 A

L7: Entry 10 of 10

File: USPT

May 10, 1994

US-PAT-NO: 5310652

DOCUMENT-IDENTIFIER: US 5310652 A

TITLE: Reverse transcription with thermostable DNA polymerase-high temperature

reverse transcription

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Gelfand; David H.

Oakland

CA

Myers; Thomas W.

Emeryville

CA

US-CL-CURRENT: 435/6; 435/7.91, 435/91.21, 536/25.6

#### ABSTRACT:

Methods are provided for the replication and amplification of RNA sequences by thermoactive DNA polymerases. In a preferred embodiment, high temperature reverse transcription is coupled to nucleic acid amplification in a one tube, one enzyme procedure using a thermostable DNA polymerase. Methods for eliminating carry over contamination of amplifications due to prior reverse transcription reactions are also provided.

7 Claims, 5 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

## **Hit List**



### **Search Results -** Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040209276 A1

L11: Entry 1 of 7 File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040209276

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040209276 A1

TITLE: Thermostable reverse transcriptases and uses thereof

PUBLICATION-DATE: October 21, 2004

**INVENTOR-INFORMATION:** 

NAME	CITY	STATE	COUNTRY	RULE-47
Smith, Michael D.	Rockville	MD	US	
Potter, Robert Jason	San Marcos	CA	US	,
Dhariwal, Gulshan	Potomac	MD	US	
Gerard, Gary F.	Frederick	MD	US	
Rosenthal, Kim	Laytonsville	MD	US	
Lee, Jun E.	San Diego	CA	US	

US-CL-CURRENT: <u>435/6</u>; <u>435/199</u>, <u>435/252.3</u>, <u>435/320.1</u>, <u>435/69.1</u>, <u>435/91.2</u>, <u>536/23.2</u>

Full	Title	e Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
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	2.	Docume	nt ID:	US 20	030198944	A1						
L11:	Ent	ry 2 of	7			F	File: PG	PB		Oct	23,	2003

PGPUB-DOCUMENT-NUMBER: 20030198944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030198944 A1

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerard, Gary F.	Frederick	MD	US	
Smith, Michael D.	Rockville	MD	US	
Chatterjee, Deb K.	North Potomac	MD	US	

Record List Display Page 2 of 4

US-CL-CURRENT: 435/5; 435/199, 435/6, 435/91.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. Do

☐ 3. Document ID: US 20030186270 A1

L11: Entry 3 of 7

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186270 A1

TITLE: Compositions and methods for reverse transcription of nucleic acid molecules

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Gerard, Gary F. Frederick MD US Smith, Michael D. Rockville MD US

Chatterjee, Deb K. North Potomac MD

US-CL-CURRENT: 435/6; 435/199, 435/91.2

COMP. DOMEST	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawt De
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☐ 4. Document ID: US 20030032086 A1

L11: Entry 4 of 7

File: PGPB Feb 13, 2003

US

PGPUB-DOCUMENT-NUMBER: 20030032086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032086 A1

TITLE: COMPOSITIONS AND METHODS FOR REVERSE TRANSCRIPTION OF NUCLEIC ACID MOLECULES

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

GERARD, GARY F. FREDERICK MD US SMITH, MICHAEL D. ROCKVILLE MD US CHATTERJEE, DEB K. NORTH POTOMAC MD US

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/6, 435/68.1, 435/91.2, 530/350, 536/23.1, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

Record List Display Page 3 of 4

☐ 5. Document ID: US 20030003452 A1

L11: Entry 5 of 7 File: PGPB Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030003452

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030003452 A1

TITLE: High fidelity reverse transcriptases and uses thereof

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Potter, Robert Jason Frederick MD US Rosenthal, Kim Laytonsville MD US

US-CL-CURRENT: 435/6; 435/199, 435/320.1, 435/325, 435/69.1, 435/91.2, 536/23.2

2	Full	Title	Citation	Front	Review	Classification	Date   Reference	Sequences	Attachments	Claims	KWIE	Drawt De
						•						

☐ 6. Document ID: US 20020090618 A1

L11: Entry 6 of 7 File: PGPB Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090618

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090618 A1

TITLE: Thermostable reverse transcriptases and uses thereof

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Smith, Michael D. Rockville MD US Potter, Robert Jason Frederick MD US Dhariwal, Gulshan Potomac MD US Gerard, Gary F. Frederick MD US Rosenthal, Kim Laytonsville MD US

US-CL-CURRENT: 435/6; 435/199, 435/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

□ 7. Document ID: US 20020081581 A1

L11: Entry 7 of 7 File: PGPB Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081581

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020081581 A1

TITLE: COMPOSITIONS AND METHODS FOR REVERSE TRANSCRIPTION OF NUCLEIC ACID MOLECULES

PUBLICATION-DATE: June 27, 2002

**INVENTOR-INFORMATION:** 

NAME CITY STATE COUNTRY RULE-47

GERARD, GARY F. FREDERICK MD US SMITH, MICHAEL D. ROCKVILLE MD US

CHATTERJEE, DEB K. NORTH POTOMAC MD US

US-CL-CURRENT: 435/6; 435/91.2

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